

Appl. No. 10/696,812

Examiner: James M Hewitt, Art Unit 3679

In response to the Office Action dated April 6, 2005

Date: July 6, 2005

Attorney Docket No. 10111396

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

Claim 1 (currently amended): An inflatable product, including:

a first chamber;

an air pump;

a first valve through which the air pump inflates and deflates the first chamber;

an air pump for inflating the first chamber through the first valve;

a first switch structure, connected to the first valve, for activating the air pump and opening the first valve wherein the first valve is mechanically opened by the first switch structure;

a second chamber;

a second valve through which the air pump inflates and deflates the second chamber;

a second switch structure, connected to the second valve, for activating the air pump and opening the second valve wherein the second valve is mechanically opened by the second switch structure;

wherein the air pump has a first pair of electrodes and a second pair of electrodes, the air pump operating in a first direction for inflating air through the first or second valve when the first pair of electrodes contact each other, the air pump operating in a second reverse direction opposite to the first direction for deflating air through the first or second valve when the second pair of electrodes contacts each other, ~~and the first switch controls the air pump to operate, and the second switch also controls the air pump to operate.~~

wherein the first switch structure and the second switch structure operate the pump by controlling the first pair of electrodes and the second pair of electrodes;

Claim 2 (currently amended): ~~An~~ The inflatable product as claimed in claim 1, further including a slider connected to the first and second pairs of electrodes and provided beside the first and second switch in such a way that the air pump is activated by the first switch and the second switch via the slider.

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Claim 3 (currently amended): An The inflatable product as claimed in claim 2, wherein the first and second switch comprise a first ear and a second ear respectively, and the second ear is impelled by the slider when the first ear pushes against the slider.

Claim 4 (new): An inflatable product, including:

- a first chamber;
- an air pump;
- a first valve through which the air pump inflates the first chamber;
- a first switch structure, connected to the first valve, wherein the first valve is mechanically opened by the first switch structure;
- a second chamber;
- a second valve through which the air pump inflates the second chamber;
- a second switch structure, connected to the second valve, wherein the second valve is mechanically opened by the second switch structure;
- wherein the air pump has a fan and motor for inflating air through the first or second valve;
- wherein the first switch structure and second switch structure controls the pump to operate.

Claim 5 (new): The inflatable product as claimed in claim 4, wherein the motor rotates the fan in a first direction to pump air from the outside to the inside of the first or second chamber or rotating the fan in a second direction opposite to the first direction to pump air from the inside to the outside of the first or second chamber.

Claim 6 (new): The inflatable product as claimed in claim 4, where in the air pump has a first pair of electrodes and a second pair of electrodes, the air pump operating in a first direction for inflating air through the first or second valve when the first pair of electrodes contact each other, the air pump operating in a second reverse direction opposite to the first direction for deflating air through the first or second valve when the second pair of electrodes contact each other, wherein the first switch structure and the second switch structure operates the pump by controlling the first pair of electrodes and the second pair of electrodes.

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Claim 7 (new): The inflatable product as claimed in claim 6, further including a driven element connected to the first and second pairs of electrodes and provided beside the first and second switch in such a way that the air pump is activated by the first switch and the second switch via the driven element.

Claim 8 (new): The inflatable product as claimed in claim 7, wherein the driven element is a slider.

Claim 9 (new): The inflatable product as claimed in claim 8, wherein when the first switch is in an inflate orientation, the first switch is impelled by the slider to an off orientation when the second switch is moved to a deflate orientation.

Claim 10 (new): The inflatable product as claimed in claim 8, wherein the first and second switch comprises a first ear and a second ear respectively, and the second ear is impelled by the slider when the first ear pushes against the slider.

Claim 11 (new): An inflatable product comprising:

- a pack having a first vent opened and closed by a first valve, a second vent opened and closed by a second valve, and a third vent in communication with the ambient;

- a first chamber in communication with the first vent;

- a second chamber in communication with the second vent;

- an air pump pumping air into the pack through the third vent when activated in a first direction, and out of the pack through the third vent when activated in a second direction;

- a first switch structure movable between a first orientation and a second orientation, the first orientation opening the first valve and activating the air pump in the first direction to inflate the first chamber, and the second orientation closing the first valve;

- a second switch structure movable between a third orientation and a fourth orientation, the third orientation opening the second valve and activating the air pump in the second direction to deflate the second chamber, and the fourth orientation closing the second valve;
- and

- a driving element impelling the second switch structure to the fourth orientation when the first switch structure is moved to the first orientation while the second switch structure is in the

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third orientation, such that the first and second switch structures cannot be respectively in the first and third orientations simultaneously.

Claim 12 (new): The inflatable product recited in claim 11, wherein the driving element impels the first switch structure to the second orientation when the second switch structure is moved to the third orientation while the first switch structure is in the first orientation, such that the first and second switch structures cannot be respectively in the first and third orientations simultaneously.

Claim 13 (new): The inflatable product recited in claim 12, wherein:

the first switch structure is further movable to a fifth orientation, the fifth orientation opening the first valve and activating the air pump in the second direction to deflate the first chamber; and

the second switch structure is further movable to a sixth orientation, the sixth orientation opening the second valve and activating the air pump in the first direction to inflate the second chamber.

Claim 14 (new): The inflatable product recited in claim 13, wherein the driving element impels the second switch structure to the fourth orientation when the first switch structure is moved to the fifth orientation while the second switch structure is in the sixth orientation, such that the first and second switch structures cannot be respectively in the fifth and sixth orientations simultaneously.

Claim 15 (new): The inflatable product recited in claim 14, wherein the driving element impels the first switch structure to the second orientation when the second switch structure is moved to the sixth orientation while the first switch structure is in the fifth orientation, such that the first and second switch structures cannot be respectively in the fifth and sixth orientations simultaneously.

Claim 16 (new): The inflatable product recited in claim 11, further comprising a first and second pair of electrodes, the first pair of electrodes in contact when the first switch structure is in the first orientation to activate the pump in the first direction, and the second pair of electrodes in

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contact when the second switch structure is in the third orientation to activate the pump in the second direction.

Claim 17 (new): The inflatable product recited in claim 16, wherein the driving element comprises a slider, the first switch structure comprises a first ear, and the second switch structure comprises a second ear, wherein the first ear impels the slider to a first position bringing the first pair of electrodes into contact when the first switch structure is moved to the first orientation, and the second ear impels the slider to a second position bringing the second pair of electrodes into contact when the second switch structure is moved to the third orientation.

Claim 18 (new): The inflatable product recited in claim 17, wherein the slider impels the second ear to move the second switch structure to the fourth orientation when the first switch structure is moved to the first orientation while the second switch structure is in the third orientation.

Claim 19 (new): The inflatable product recited in claim 18, wherein the slider impels the first ear to move the first switch structure to the second orientation when the second switch structure is moved to the third orientation while the first switch structure is in the first orientation.

Claim 20 (new): The inflatable product recited in claim 11, wherein the first switch structure is mechanically connected to the first valve and the second switch structure is mechanically connected to the second valve.